

AM-1 Mission Daily Operations Confidence Test - EGS3

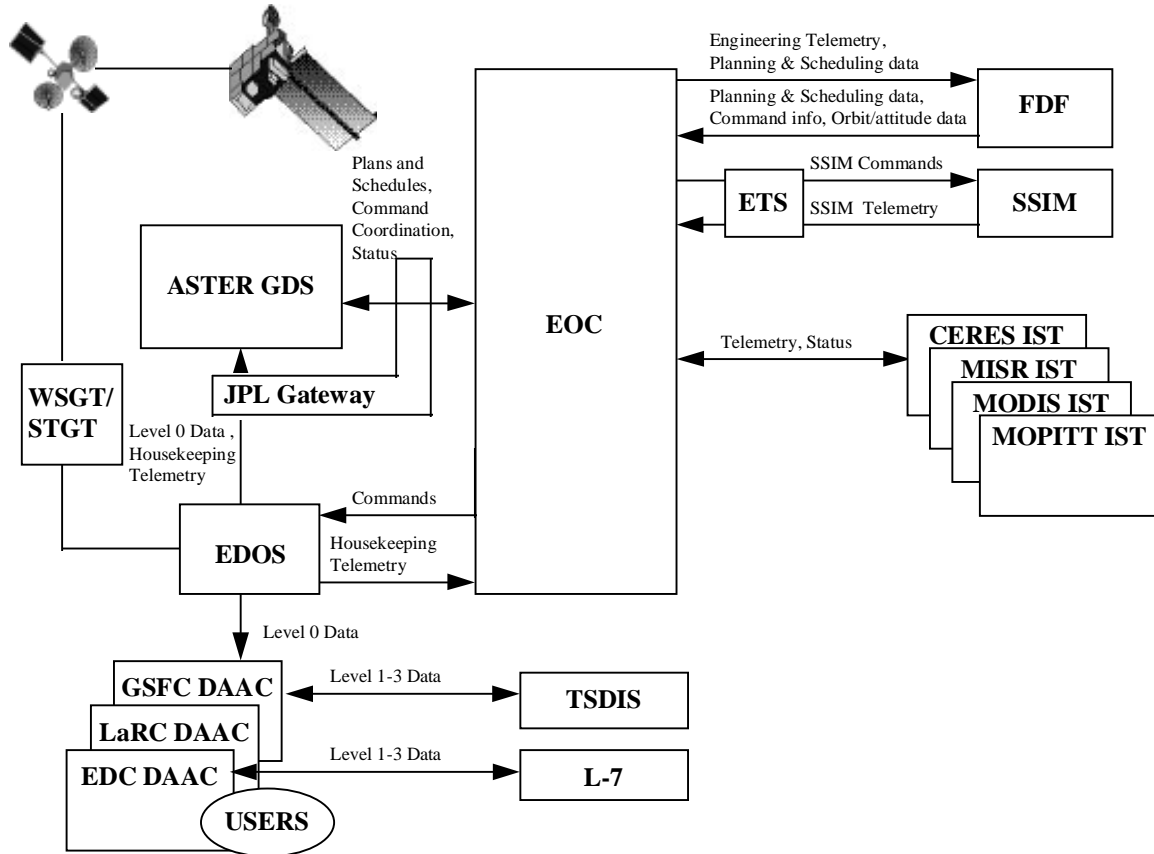
Test Objectives:

The objective of this test is to perform all of the normal daily operations of the EGS in support of the AM-1 Mission. This includes exercising the real time command and control of the spacecraft in the EOC, while simultaneously conducting mission planning and scheduling processing for future activities and spacecraft analysis processing on history data. At the DAACs, Level 0 data are received from EDOS, and ancillary data are transferred across DAACs and from ADCs and other sources. Science data production and archiving processing is performed. Product delivery to instrument teams is performed and the IMS is queried from multiple sources and ad hoc deliveries of data to users are performed. This test is the final step in the EOSDIS Mission Certification process for the AM-1 mission.

Requirements to be Verified:

(TBD)

Test Configuration:



Participants and Support Requirements:

Participants: FOT, I&T, NCC/SN, FDF, EBnet, EOC M&O, DAACs (all), AM-1 Instrument Teams (IST/ICC and SCF), EDOS, ASTER GDS, RFSOC

Communications:

Data - EBnet circuit designations **TBD**

Voice - Nascom SCAMA (**TBD**)

CCL (intra - GSFC) **TBD**

Equipment and Software:

Full EOC, prime and backup systems to support operational logical strings

DAACs - full operational systems

Test Tools - **TBD**

Test Data:

Description / Characteristics	Source	File/script name & Location
Housekeeping Telemetry - Reuse data from EOC1		
Mission Timeline	Produced by the execution of EOC3 - Planning and Scheduling Confidence test	
Ground Script	Produced by the execution of EOC3 - Planning and Scheduling Confidence test	
Command Loads	Produced by the execution of EOC3 - Planning and Scheduling Confidence test	
Instrument Data - Reuse Data from SDP1		
Products in the archive for retrieval - Reuse Data from SDP3		

Test Case Descriptions:

Prerequisites: AM-1 Spacecraft Daily Operations Test EGS1
 Data Ingest and Archive Confidence Test SDP1
 Science Data Production Confidence Test SDP2
 Data Access and Transfer Confidence Test SDP3

EGS3.1 AM-1 Mission Daily Operations Test.

This test verifies the ability of the EGS to simultaneously perform all normal daily operations in support of the AM-1 mission. This test consists of the simultaneous execution of the AM-1 Spacecraft Operations Test (EGS1), the Data Ingest and Archive Confidence Test (SDP1), the Science Data Production Confidence Test (SDP2), and the Data Access and Transfer Confidence Test (SDP3).

Test Procedures:

(**TBS** - the bulk of the procedures will be re-used from EGS1, SDP1, SDP2, and SDP3. The procedures for this test will probably consist mainly of an event timeline.)